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January 10, 2014

#### VIA ELECTRONIC FILING AND FIRST CLASS MAIL

Public Utility Commission of Oregon 3930 Fairview Industrial Drive SE Post Office Box 1088 Salem, Oregon 97308-1088

Attn: Filing Center

Re: Docket UM 1654 – Investigation of Interstate Storage and Optimization Sharing

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company"), files herewith its Supplemental Reply Testimony in the above-captioned docket. Enclosed are an original and five copies.

A copy of this filing has been served on all parties to this proceeding as indicated on the enclosed Certificate of Service

Please call me with any questions.

Sincerely,

/s/ Mark R. Thompson

Mark R. Thompson

**Enclosure** 

cc: Service List



#### **CERTIFICATE OF SERVICE**

I hereby certify that I have this day served the foregoing NW NATURAL'S SUPPLEMENTAL REPLY TESTIMONY, upon all parties of record in the UM 1654 proceeding by electronic mail.

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DATED at Portland, Oregon, this 10th day of January 2014.

/s/ Kelley C. Miller

Kelley C. Miller Rates & Regulatory Affairs NW NATURAL

# BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

**UM 1654** 

#### **NW Natural**

**Supplemental Reply Testimony of Keith White** 

INTERSTATE STORAGE AND OPTIMIZATION EXHIBIT 500

January 10, 2014

2	Q.	Please state your name.
3	A.	Keith White.
4	Q.	Are you the same Keith White who filed direct and reply testimony in this case?
5	A.	Yes. My direct testimony was filed as NWN/100 and my previous reply testimony was
6		filed as NWN/300.
7	Q.	What is the purpose of your supplemental reply testimony?
8	Α.	The purpose of this testimony is to respond to the supplemental testimony filed by Erik
9		Colville and Deborah Garcia of Staff of the Public Utility Commission of Oregon ("Staff")
10		on November 22, 2013.
11	Q.	Please summarize your testimony.
12	A.	The Company agrees with Mr. Colville's conclusions that the Company's interstate and
13		intrastate storage service business ("Storage Services") and the Company's optimization
14		of various utility resources and capacity at Mist through a third-party partner
15		("Optimization Activities") are beyond the normal course of business for a local
16		distribution company ("LDC") like NW Natural. 1 The Company also agrees with Mr.
17		Colville's recommendation that the current sharing arrangement remain unchanged.
18		Specifically, we agree that there is no evidence that business conditions or risks
19		associated with the Company's Storage Services and Optimization Activities have
20		changed—since the time those arrangements were adopted by the Public Utility
21		Commission of Oregon ("Commission")—such that it would not be appropriate to revise
22		the sharing percentages. <sup>2</sup>

**INTRODUCTION AND SUMMARY** 

I.

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<sup>&</sup>lt;sup>1</sup> Staff/200, Colville/4-5.

<sup>&</sup>lt;sup>2</sup> Staff/200, Colville/5.

The Company also understands Mr. Colville's concerns related to the potential harm to customers that could occur if the Company were to sell physical gas to cover a financial transaction resulting from the Company's Optimization Activities. However, as explained more fully below, customers are protected because any exchanges of gas for optimization purposes are priced identically, resulting in a net zero gain or loss on such exchanges.

The Company disagrees with Ms. Garcia's recommendation to include earnings derived from the Optimization Activities in the Company's Results of Operations ("ROO"). First, inclusion of these earnings in the ROO would impact both the Spring Earnings Review, and any other earnings reviews that might be ordered under the Commission's deferral statute, ORS 757.259, including the earnings review the Commission ultimately adopts as a component of the Site Remediation Recovery Mechanism (SRRM) under consideration in docket UM 1635. As a result, Ms. Garcia's proposal could have the unintended but consequential effect of significantly diluting or eliminating altogether NW Natural's incentive to continue its participation in Optimization Activities. Moreover, Ms. Garcia's analysis is incomplete and does not take into account the actual sharing percentages on the specific types of optimization transactions and therefore she understates the impact of her recommendations. When properly accounted for, it becomes clear that Ms. Garcia's proposal could materially reduce the Company's share of optimization earnings, which under certain circumstances would significantly reduce the Company's incentive to engage in these activities, to the ultimate detriment of both the Company and its customers.

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#### 1 II. RESPONSE TO MR. COLVILLE

2 Q. On page 4 of his testimony, Mr. Colville states his conclusion that the Company's 3 Storage Services and Optimization Activities are beyond the normal course of gas 4 LDC base expectations. How do you respond to Mr. Colville's conclusions? 5 A. The Company agrees with Mr. Colville's conclusion that these activities require a level of expertise and activity beyond that which is normally expected from a gas LDC.3 These 6 7 activities are not a part of the Company's core responsibility to distribute natural gas to utility customers; instead, they involve speculation on the market and necessitate the 8 9 execution of complex transactions which we could not perform for ourselves. As 10 described in previous testimony, the Company agrees that LDCs do not have an "unlimited obligation" to engage in every type of activity designed to optimize its assets.4 11 12 This is particularly true of activities that increase shareholder risk. Rather, if a 13 discretionary business activity will increase shareholder risk, the Company agrees that there needs to be an adequate incentive to engage in the activity and the incentive must 14 be designed to account for the increased risk. As is evidenced by the benefits that have 15 16 accrued to customers and shareholders through the Company's successful Storage 17 Services and Optimization Activities, incentives are effective mechanisms to encourage 18 the Company to continue to innovate. On page 5 of his testimony, Mr. Colville concludes that there is no compelling 19 Q.

<sup>3</sup> Staff/200, Colville/4; see also, Staff/100, Colville/14.

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3 - SUPPLEMENTAL REPLY TESTIMONY OF KEITH WHITE

shareholders. How do you respond to this conclusion?

reason to revise the sharing mechanism that has worked well for customers and

<sup>&</sup>lt;sup>4</sup> See, Staff/100, Colville/9.

2 maintained. The current arrangement recognizes the benefits to customers and 3 encourages the Company's long-term commitment to these discretionary business 4 activities. As Mr. Colville correctly points out, there have been no relevant changes that 5 would suggest that revision of the sharing arrangement is necessary or proper.<sup>5</sup> 6 Q. On pages 10 and 11 of his testimony, Mr. Colville discusses the risk that 7 customers may incur additional costs in the event that the Company is required to sell stored gas in order to cover a financial transaction entered into as part of the 8 9 Company's Optimization Activities. What is your response to this concern? 10 Α. I understand the nature of Mr. Colville's concern. To avoid the potential problem 11 described by Mr. Colville, the Company has structured the optimization transactions with 12 its Asset Management Agreement optimization partner to keep transaction gains/losses 13 within its Optimization Activities book. Specifically, when a storage transaction requires NW Natural to "sell" and later "replace" gas, the sale and purchase prices are structured 14 as an exchange of gas with no net cost to the Company. Thus, if there is a transaction 15 16 loss, the customers' sharing of the overall optimization benefit would be commensurately 17 reduced, but they are protected from that loss negatively impacting their Purchased Gas Adjustment ("PGA") cost. 18 19 Exhibit 501 contains documentation of a sample set of 2013 transaction 20 confirmations demonstrating this practice. In the first confirmation #A1, NW Natural is 21 the Seller. In the second confirmation #A2, NW Natural is the Buyer. The Contract

I agree with Mr. Colville—the current arrangement works as intended and should be

<sup>5</sup> Staff/200, Colville/5.

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A.

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4 – SUPPLEMENTAL REPLY TESTIMONY OF KEITH WHITE

market indices or actual market transactions.

Price on both Confirmations reflects the exchange nature; the prices are not tied to

While customers are buffered from any optimization gains/losses showing up in the PGA, I should note that there is a second order timing impact on the Company's weighted average cost of gas ("WACOG"). Some costs end up being shifted between the current and next year's WACOG due to storage inventory cycling. The cost amounts exactly offset, but there is a timing difference between the two years.<sup>6</sup>

III. RESPONSE TO MS. GARCIA

On page 2, Ms. Garcia testifies that she supports Citizens' Utility Board of Oregon's ("CUB") proposal to include income derived from the optimization of ratepayer-owned assets in the ROO as utility income for purposes of earnings reviews, and in particular, for the annual Spring Earnings Review. How do you respond to Ms. Garcia's recommendation?

The Company disagrees with Ms. Garcia's recommendation for all of the same reasons that the Company disagrees with the same recommendation from CUB. As I explained in my reply testimony, inclusion of revenues from Optimization Activities in regulated earnings for the purposes of the Spring Earnings Review, and other earnings reviews as well, could essentially eliminate NW Natural's incentive to participate in these activities in the first place—regardless of the sharing allocation adopted. My previous reply testimony described the Company's position with respect to CUB's similar recommendation and those same arguments apply here as well.

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<sup>&</sup>lt;sup>6</sup> In its WACOG gas accounts the Company records a Mist storage withdrawal and an equivalent injection for the optimization volumes in order to transfer inventory between months. Rather than record these withdrawals/injections at the same cost, the Company's accounting convention has been to follow the current regulatory treatment that withdrawals/injections after November 1 of each PGA year be reflected as PGA variances. Specifically, the Company records the withdrawal at the average embedded Mist inventory cost and records the injection at the average cost of gas purchases used for core storage injections during the relevant month. The practical consequence is that storage optimization shows up as additional cycling of core storage and helps bring the carry-forward storage inventory value closer to market.

<sup>&</sup>lt;sup>7</sup> NWN/300, White/19-20.

<sup>&</sup>lt;sup>8</sup> *Id.* 

Q. In addition to the points you have already made, do you have any other responses 1 2 to Ms. Garcia's testimony? 3 A. Yes. Ms. Garcia appears to base her conclusions on the results shown in her exhibit, 4 Staff/302, describing the effect of including Optimization Activity revenues in the Spring 5 Earnings Review. Ms. Garcia concludes that under Staff's proposal, the Company's 6 share of Mist Optimization Activities would be reduced to no less than 39 percent. Ms. 7 Garcia concludes that this reduction is acceptable because this sharing percentage "far 8 exceeds the sharing allocation of other sharing mechanisms such as the WACOG Sharing mechanism." However, the calculations in Ms. Garcia's exhibit are incomplete 9 10 and, in some instances based on incorrect values. As a result, Ms. Garcia significantly 11 overstates the Company's share of revenues resulting from assets included in customer 12 rates under her proposal. 13 Q. Please explain your statement that Ms. Garcia's exhibit is based on incorrect 14 values. A. Ms. Garcia's analysis in Staff/302 is incorrect because it reverses the storage capacity 15 16 proportions. Ms. Garcia indicates that the ratepayer share of the Mist storage capacity is 17 47 percent and the shareholder share is 53 percent. However, the ratepayer capacity percentage is actually 53 percent and the shareholder percentage is 47 percent. 18 19 Q. Please explain your statement that Ms. Garcia's exhibit is incomplete. 20 A. Ms. Garcia's exhibit shows the effect of her proposal on only those revenues attributable 21 to the optimization of Mist Storage facilities, but ignores entirely the effect her proposal 22 would have when it is applied to NW Natural's optimization of gas and pipeline contracts 23 as well. Specifically, Ms. Garcia's exhibit includes revenues from both the non-utility <sup>9</sup> Staff/300, Garcia/5.

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Rates & Regulatory Affairs **NW NATURAL** 220 N.W. Second Avenue Portland, Oregon 97209-3991 1-503-226-4211 storage, of which the Company receives 80 percent, and the portion of Mist storage that is included in customer rates, of which the Company receives 33 percent. However, Ms. Garcia fails to show how her recommendation would affect total Optimization Activity revenues, including those related to optimization of NW Natural's gas and pipeline contracts, of which the Company receives 33 percent. This omission is significant because the majority of the Optimization Activities' earnings are derived from these non-Mist activities—meaning the vast majority of the earnings from the Company's Optimization Activities are subject to the 33/67 percent sharing. Inclusion of these non-Mist optimization earnings in the Spring Earnings Review will cause NW Natural's overall sharing percentage under Ms. Garcia's proposal to decrease significantly.

#### Q. Do you have any other concerns with Staff/302?

Yes. It is improper for Ms. Garcia to include the revenues from the optimization of the non-utility portions of Mist in the Spring Earnings Review. By her own terms, Ms. Garcia recommends that the Spring Earnings Review apply to revenues from Optimization Activities that use "ratepayer-owned assets." Nevertheless, while it is unclear from her testimony, based on Staff/302 it appears that Ms. Garcia considers the non-utility Mist optimization an activity that uses "ratepayer-owned assets." Thus, Ms. Garcia subjects earnings from non-utility Mist optimization to the Spring Earnings Review. <sup>10</sup>

Ms. Garcia's apparent characterization of non-utility Mist storage as a "ratepayer-owned asset" is incorrect on its face. As I explained in my Opening Testimony, non-Mist storage was developed with shareholder investments and cannot fairly be regarded as a "ratepayer-owned asset." Moreover, Ms. Garcia's attempt to include these revenues in

#### 7 – SUPPLEMENTAL REPLY TESTIMONY OF KEITH WHITE

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<sup>&</sup>lt;sup>10</sup> In Column C of Staff/302, Ms. Garcia totals the income from both the non-utility storage activities (Column A) and the storage activities using facilities that are included in rates (Column B) and then subjects this total income (Column C) to the Spring Earnings Review (Column D).

regulated utility earnings would result in a mismatch from a ratemaking perspective. As I 1 2 explained, the investment in the non-utility Mist storage is not accounted for in customer 3 rates. For this reason, including the revenues from non-utility Mist storage—but not the 4 investment—in the calculation of the Company's rate of return ("ROR") for the Spring 5 Earnings Review would artificially and unfairly overstate the Company's earnings, and 6 therefore should not be implemented. 7 Q. Have you prepared an exhibit demonstrating the true impact of Ms. Garcia's recommendation, when all errors and omissions are accounted for? 8 9 A. Yes. I have prepared an exhibit, NWN/502, which replicates Staff/302, but (a) includes 10 the correct storage capacity proportions allocable to customers and shareholders; (b) 11 includes revenues from non-Mist optimization including those resulting from gas and 12 pipeline contracts; and (c) removes from inclusion in the regulated earnings those 13 revenues resulting from non-utility Mist optimization. My exhibit uses actual historical 14 revenues to calculate the percentage of revenues that are subject to each of the sharing percentages, based on 2008-2012 transactions. 15 Q. 16 Describe what Exhibit 502 shows about the impact on the Company's revenues 17 from non-Mist optimization if those revenues were subjected to the sharing percentages in the Spring Earnings Review? 18 19 Α. My exhibit indicates that under Staff's proposal, and using actual, historical proportional 20 earnings for each sharing category, the Company's overall share of revenues from all 21 optimization activities—utility and non-utility—would be reduced to 27 percent. 22 Q. Describe what Exhibit 502 shows about the impact of excluding from the Spring 23 Earnings Review those revenues attributable to non-utility Mist optimization?

A. Once the revenues from non-utility Mist optimization have been removed from

consideration, the Company's share of optimization revenues from resources included in

customer rates decreases to 22 percent. This amount is significantly below the 39

percent Ms. Garcia relies on to test the reasonableness of her recommendation.

#### Q. Do you have any other concerns regarding Staff/302?

Yes. The percentages reflected in Staff/302 represent the relative proportions of utility versus shareholder investments in storage capacity as of 2013 and do not account for the fact that these proportions are changing over time. Consistent with the Company's Integrated Resource Plan, NW Natural plans to continue recalling additional Mist capacity for customer use as needed. In other words, the percentage reflected in Ms. Garcia's Column B, "Ratepayer Share," will be increasing over time, and the Company's revenue share will decrease.

#### Q. Are there any other concerns about including this revenue in the ROO?

Yes. I would like to briefly reiterate my concerns regarding including Optimization
Activities revenues in the ROO for the purposes of the Spring Earnings Review and
potentially the SRRM earnings review. It is inarguable that if these revenues are
included in the Spring Earnings Review, the Company will have less incentive to
participate in Optimization Activities. Moreover, as described in my testimony
responding to CUB's similar recommendation, the Company is very concerned that
inclusion of these revenues in the ROO may lead to the inclusion of this revenue in the
earnings reviews that the Commission ultimately adopts as a component of the final
SRRM, which is the subject of docket UM 1635. In that case, the Commission has
indicated that it intends to adopt an earnings review with "deadbands."

If the

#### 9 - SUPPLEMENTAL REPLY TESTIMONY OF KEITH WHITE

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<sup>&</sup>lt;sup>11</sup> Re Mechanism for Recovery of Environmental Remediation Costs, Docket UM 1635, Order No. 13-424 at 7 (Nov. 18, 2013).

2 only in the Spring Earnings Review, but also in the final SRRM earnings review. 3 depending on how the deadbands are structured, any incentive to continue to participate 4 in these activities would be further diluted, or even eliminated altogether. 5 Q. Ms. Garcia argues that the inclusion in the ROO would not dilute the Company's 6 current incentive to participate in these activities because NW Natural has earned 7 a significant amount of income every year since Optimization Activities have been pursued, and that there is therefore "no reason to believe that the Company will 8 not continue such a successful program." 12 What is your response? 9 10 A. Ms. Garcia's comments ignore the fact recognized by Mr. Colville that NW Natural's 11 Optimization Activities go beyond typical LDC activities and present risks to NW 12 Natural's shareholders not otherwise present. It is also true that the Company has finite 13 resources to engage in activities that go beyond its core obligations. A weakened incentive would signal the Company to reduce its Optimization Activities, and could lead 14 the Company to reduce and eventually cease these activities altogether. 15 Q. Do you believe that it is consistent with Commission policy to include in the 16 17 Spring Earnings Review -- and potentially the SRRM earnings review -- income derived from activities that are beyond the scope of normal LDC business 18 activities? 19 20 A. No. The Commission has never included in the Spring Earnings Review income derived 21 from Optimization Activities—regardless of whether the income was derived from: (1) 22 non-utility Mist storage investment, (2) Mist storage utility rate base investments; or (3) 23 non-earning contract resources whose costs are included in rates (i.e., the gas supply

Company's share of revenues flowing from its Optimization Activities are included not

<sup>12</sup> Staff/300, Garcia/5, lines 13-14.

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portfolio other than Mist). Indeed, the Company believes that including this revenue in the Spring Earnings Review represents a dramatic shift from past practice and the record in this case does not warrant such a change. Rather, a more principled basis for determining which revenues should be included in regulated earnings for the purposes of earnings reviews would be whether the earnings are derived from an activity that is within an LDC's normal course of business.

Currently, earnings related to WACOG cost variances, incremental revenues and costs realized by the Company since its last rate case, and changes in rate base investment are included in the ROO calculation for purposes of the Spring Earnings Review. All of these costs and revenues are directly attributable to business activities that are performed as part of NW Natural's normal, LDC business activities. On the other hand, historically, earnings related to Optimization Activities—which Staff agrees are beyond the activities that are expected of an LDC—have been excluded from the Spring Earnings Review. Similarly, costs and revenues associated with activities such as the Appliance Center and Storage Services have been excluded from the earnings review. Storage Services and Optimization Activities are treated as non-utility activities and should therefore continue to be excluded from the Spring Earnings Review.

- Q. Do you have any other concerns regarding inclusion in earnings reviews of income from activities outside the normal scope of the LDC role?
- A. Yes. Taking this approach would have negative consequences in other areas of the
  Commission's regulation. For instance, currently the Commission and the Company are
  preparing to participate in a rulemaking to implement Senate Bill ("SB") 844. SB 844
  allows the Commission to design an incentive program to encourage gas LDCs to go
  beyond the normal course of their business to economically achieve reductions in

greenhouse gas ("GHG") emissions. The Company supports SB 844 and looks forward to participating in the programs the Commission ultimately approves. However, if the earnings from the SB 844 programs are included in the Spring Earnings Review, then the incentive to the Company to pursue the programs will be diluted. And if those earnings are included in an SRRM earnings review, the incentive could be eliminated altogether.<sup>13</sup>

#### Q. What is your recommendation regarding Ms. Garcia's proposal?

Α.

The Commission should reject Ms. Garcia's proposal and continue to include in the ROO earnings from activities that are standard LDC activities and continue to exclude those discretionary business activities that go beyond. Over the last 10 years, the Company's Storage Services and Optimization Activities have benefitted both customers and shareholders. The advantage of structuring the sharing arrangement as a "win/win" is that it encourages the Company to focus on creating value and to seek out innovative ways to enlarge the economic pie, with the understanding that the interests of the Company's two key stakeholders are aligned.

It is also important to note that with the lone exception of the 53 percent of Mist storage capacity that is included in rates, the earnings that are the subject of this docket—Storage Services and Optimization Activities—do not involve any assets included in rate base for which the Company can earn a return within the normal course of gas LDC business. To include these earnings into the "numerator" of the ROR calculation without any corresponding investment in the "denominator" is inappropriate and would undermine the incentive nature of the mechanism.

<sup>&</sup>lt;sup>13</sup> On this point, please see NWN/300, White/20, and NWN/305.

1		In sum, the current incentive structure strikes a reasonable balance between
2		customers and shareholders. No party has submitted compelling evidence to warrant a
3		revision to the current arrangement—either directly or indirectly—as would be the result
4		of including certain Optimization Activities' earnings in the Company's ROO.
5	Q.	Does this conclude your testimony?
6	A.	Yes.

## BARTER TRANSACTION CONFIRMATION FOR IMMEDIATE DELIVERY

**EXHIBIT** 

	1	Date: March 20, 2013						
		Transaction Confirmation #: A1- Backdraft						
This Transaction Confirmation is subject to the Base Transaction Confirmation are binding unless dispute the Base Contract.	e Contract between Sell ed in writing within 2 Bus	er and Buyer dated July 1, 2004. The terms of this siness Days of receipt unless otherwise specified in						
SELLER: Northwest Natural Gas Company ("NWN") 220 NW Second Avenue Portland, OR 97209 U.S.A. Attn: Manager, Gas Supply Phone: (503) 226-4211 Fax: (503) 220-2421 Base Contract No. Transporter: Transporter Contract Number:	11718 Nic Omaha, N Attn: John Phone: 30 Fax: 402-7 Base Cont	<u>13-723-9305</u> 7 <u>58-6250</u> tract No. <u>CT</u> -002277						
	between NVVIV and TIVI							
Delivery Period: Begin: April 1, 2013	End: March 31, 20	14						
Performance Obligation and Contract Quantity: (Firm (Fixed Quantity):	·							
***	irm (Variable Quantity)	······································						
	MMBtus/day Min							
<b>U</b>	p to MMBtus/day N	Maximum						
subject to Section 4.2. at election of								
To a second seco		election of						
	Buyer or Seller	election of						
Delivery Point(s): X Huntingdon – Spectra Energy	Buyer or Seller s Westcoast 🗵 C	Other mutually agreeable Canadian Delivery Point(s)						
	Buyer or Seller  s Westcoast	Other mutually agreeable Canadian Delivery Point(s) ery of Gas by NWN to TMC at the designated delivery is which include, without limitation, OFO conditions on the parties have agreed to designate a Termination TMC under this Confirmation #A1 and when it is the Buyer obligation to deliver the Gas as agreed upon between the						

16 Properties Frommation deadline for cycle 2 through 4.	The state of the s
Seller: NORTHWEST NATURAL GAS COMPANY	Buyer: TENASKA MARKETING CANADA,
By: Kell White RATE	A Division of TIM Corp.  By:
Title: Energy Supply/CSO	Title: JOHN OBERMILLER
Date: 4 / / / 2013	Date: Date: JOHN OBETTWIND FINANCE
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### BARTER TRANSACTION CONFIRMATION

**EXHIBIT** 

	OR IMMEDIATE DELIVERY
Letterhead/Logo	Date:Transaction Confirmation #: A2 - Backdraft
This Transaction Confirmation is subject to the Base this Transaction Confirmation are binding unless disp in the Base Contract.	Contract between Seller and Buyer dated February 1, 2004. The terms of outed in writing within 2 Business Days of receipt unless otherwise specified
SELLER: Tenaska Marketing Ventures ("TMV") 11718 Nicholas Street Omaha, NE 68154-4413 Attn: John Parks Phone: 303-723-9305 Fax: 402-758-6250 Base Contract No. Transporter: Transporter: Contract Price: In consideration of gas sold by NWN Transaction Configuration and State Prices: In Configuration (State Price)	BUYER: Northwest Natural Gas Company ("NWN") 220 NW Second Avenue Portland, OR 97209 U.S.A. Attn: Manager, Gas Supply Phone: (503) 226-4211 Fax: (503) 220-2421 Base Contract No. Transporter: Transporter: Transporter Contract Number:
Transaction Confirmation #A1 applicable between NV Delivery Period: Begin: April 1, 2013	VN and TMC.  End: March 31, 2014
MMBtus/day  Delivery Point(s): X U.S. NWPL Portland Gates  Special Conditions: (i) This transaction regards a Firm phys (i), the parties have agreed to designate a Termination Option TMC under Confirmation #A1 and when it is the Buyer from Tioobligation to deliver the Gas as agreed upon between the partitioner will be no net financial settlement provisions in lieu of phyprovided for in Section 7 the NAESB Base Contract General Terminance Obligation and Contract Quantity: The total confirmation will be equal to the total quantity solvering covered by a separate Transaction Confirmation #A1 and during the Delivery Period, the total cumulative sum oparties (including TMC), as applicable, will not exceed 130,00 confirmations A1/A2, C1/C2 and D1/D2 between the parties TMV will notify NWN of the Firm amount that is available for significance and promination shall be for a unificance.	interruptible: MMBtus/day Minimum
Seller: TENASKA MARKETING VENTURES by: TMV Holdings, LLC, Its Managing Partner by:  JOHN OBERMILLER SENIOR VICE PRESIDENT, FINANCI	Buyer: NORTHWEST NATURAL GAS COMPANY  By: Alla Male Sta
ate:/	Date:4/ / Zo/3

Case I - As included in Garcia 302

			Allocation	Allocation after Earnings Test Sharing						
Oregon share		Mist Related (	Optimization						Post ET	
income	Subject to 80/20 sharing		Subject to 33/67 sharing		Total	ET sharing	ET Effect	Post ET	Incentive	
10,000,000	53%	5,300,000	47%	4,700,000	10,000,000					
NWN Shareholders	80%	4,240,000	33%	1,551,000	5,791,000	67%	3,879,970	3,879,970	39%	
NWN Ratepayers	20%	1,060,000	67%	3,149,000	4,209,000	33%	1,911,030	6,120,030	61%	
					·	•	_	10,000,000		

Case II - Case I corrected for Mist allocation between Core (53% and 33/67 sharing) and non-core (47% and 80/20 sharing)

			Allocation	Allocation after Earnings Test Sharing					
Oregon share		Mist Related (	Optimization	nization			ET Effect	Post ET	Post ET Incentive
of income	Subject to 80/2	20 sharing	Subject to 33/67 sharing		Total	ET sharing			
10,000,000	47%	4,700,000	53%	5,300,000	10,000,000				
NWN Shareholders NWN Ratepayers	80% 20%	3,760,000 940,000	33% 67%	1,749,000 3,551,000	5,509,000 4,491,000		3,691,030 1,817,970	3,691,030 6,308,970 10,000,000	37% 63%

Case III - Case revised for inclusion of non-Mist Optimization (Total revenue broken out based on 5-year average %'s) - See note below.

				Allocation after Earnings Test Sharing							
Oregon share		Mist Related (	Optimization		Non Mist Opti	mization					Post ET
of income	Subject to 80/2	0 sharing	Subject to 33/67 sharing		Subject to 33/67 sharing		Total	ET sharing	ET Effect	Post ET	Incentive
3,363,828	47%	1,580,999	53%	1,782,829		6,636,172	10,000,000				
NWN Shareholders NWN Ratepayers	80% 20%	1,264,799 316,200	33% 67%	588,334 1,194,495	33% 67%	2,189,937 4,446,235	4,043,070 5,956,930	67% 33%	2,708,857 1,334,213	2,708,857 7,291,143 10,000,000	<b>27%</b> 73%

Case IV - Case III revised to exclude non-core (47% and 80/20 sharing) amounts

			Allocation	n before Earning		Allocation after Earnings Test Sharing					
Oregon share	Mi	Optimization		Non Mist Optimization						Post ET	
of income	Subject to 80/20 sharing		Subject to 33/67 sharing		Subject to 33/67 sharing		Total	ET sharing	ET Effect	Post ET	Incentive
3,363,828	47%	-	53%	1,782,829		6,636,172	8,419,001				
NWN Shareholders NWN Ratepayers	80% 20%	-	33% 67%	588,334 1,194,495	33% 67%	2,189,937 4,446,235	2,778,270 5,640,731	67% 33%	1,861,441 916,829	1,861,441 6,557,560	22% 78%
										8,419,001	

Note to Case III heading: 5-year average %'s derived using 2008 to 2012 activity from NWN/301 White/1 (filed 9/23/13).

Amounts for each credit category were grossed up for sharing percentages and core / ISS proportion for sample month during each year to produce Oregon Income levels.